CLAIMS

1. An Al-coated steel sheet for a fuel tank having an alkali-soluble resin film directly formed on a surface of said Al-coated steel sheet.

2. The Al-coated steel sheet for a fuel tank defined in Claim 1, wherein the resin is soluble in an alkali liquid of pH 9.0 or higher.

3. The Al-coated steel sheet for a fuel tank defined in Claim 1, wherein the alkali-soluble resin has a carboxyl group in its molecule with an acid value of 40-90.

4. The Al-coated steel sheet for a fuel tank defined in Claim 1, wherein the alkali-soluble resin has a carboxyl group in its molecule and 1-50% hydrogen atom of said carboxyl group is substituted by alkali metal.

5. The Al-coated steel sheet for a fuel tank defined in Claim 3 or 4, wherein the alkali-soluble resin is urethane or acrylic resin.

6. The Al-coated steel sheet for a fuel tank defined in Claim 1, wherein the resin film is mixed with 1-25mass% a powdery synthetic resin and/or 1-30mass% powdery silica.

7. The Al-coated steel sheet for a fuel tank defined in Claim 1, wherein the resin film of 0.2-5.0μm in thickness is formed on the Al-coated steel sheet.

8. A method of manufacturing a fuel tank comprising the steps of:

preparing an Al-coated steel sheet on which an alkali-soluble resin film is directly formed,

press-working said Al-coated steel sheet to upper and lower halves of a fuel tank,

washing said upper and lower halves with an alkali liquid to dissolve off said resin film,

welding said upper half to said lower half, and

applying a paint to an external surface of said upper and lower halves.